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R31Fsm
Cp. 2

WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO

and
FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

AS OF
May 1, 1981



U.S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with
COLORADO STATE SOIL CONSERVATION BOARD
STATE ENGINEER of COLORADO
and STATE ENGINEER of NEW MEXICO

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Conveyance System Water Losses

Water losses in earthen conveyance ditches can total 10 to 50% of the water diverted from the stream or reservoir.

The type of soil that the ditch is cut into is the biggest factor in water losses. Sandy or gravelly soils lose the most water followed by the loams or medium textured soils. Heavy clay soils permit the smallest water losses.

Alluvial soils laid down in old river beds may have layers of soils alternating between heavy and sandy or gravelly soils. When a ditch is cut into these soils, the water has a tendency to move horizontally into the sandy or gravelly layers.

Sediment carried in the irrigation water tends to seal the ditch bottom and sides to a limited extent. As the water moves into coarse soils its velocity is reduced. Slower moving water carries a smaller sediment load. Thus, sediment is deposited in the first few inches of ditch edge or bottom. Finer sediment allows water to move through the soil at a slower rate so less water is lost.

Several things can be done to prevent seepage losses from ditches, including:

1. Line the ditch with concrete.
2. Install a pipeline.
3. Use other lining material that may be less durable but effective in the short term. This material may include metal, plastic or bentonite.

After a conveyance ditch is lined or piped, onfarm water management practices need to be changed. Suddenly an irrigator has more water to work with. If there was a 50% loss of water in the conveyance channel before ditch lining or piping was completed, he may have doubled his water supply. Putting this new quantity of water down the same number of furrows results in higher tailwater runoff. It can increase flow rates to the point that increased erosion will occur. The increased water supply should be used to irrigate larger sets.

Another change is a faster arrival time for water. Water in a lined or piped ditch moves much faster than in a meandering grass and brush filled earth ditch. The new channel is also laid out in a straight line without the zigzags common in an earthen channel. This results in a shorter distance for the water to travel. Velocities in a lined or piped ditch may average 3 to 5 feet per second. At this velocity, water can travel a mile in 15 to 30 minutes. It may have required 2 to 6 hours for this same distance in the earthen ditch.

Shorter travel times for water to get to the farm means it is easier to budget irrigation time.

Measurement structures are an important part of good onfarm water management. Knowing the quantity of water coming into the area to be irrigated allows the irrigator or irrigation system designer to design an efficient irrigation system.

The Soil Conservation Service has design information available to properly size irrigation systems. Knowing the soil type, the length of run in the field, flow rate of available water, and the slope of the field will enable the design of an efficient irrigation system.

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WATER SUPPLY CONDITIONS

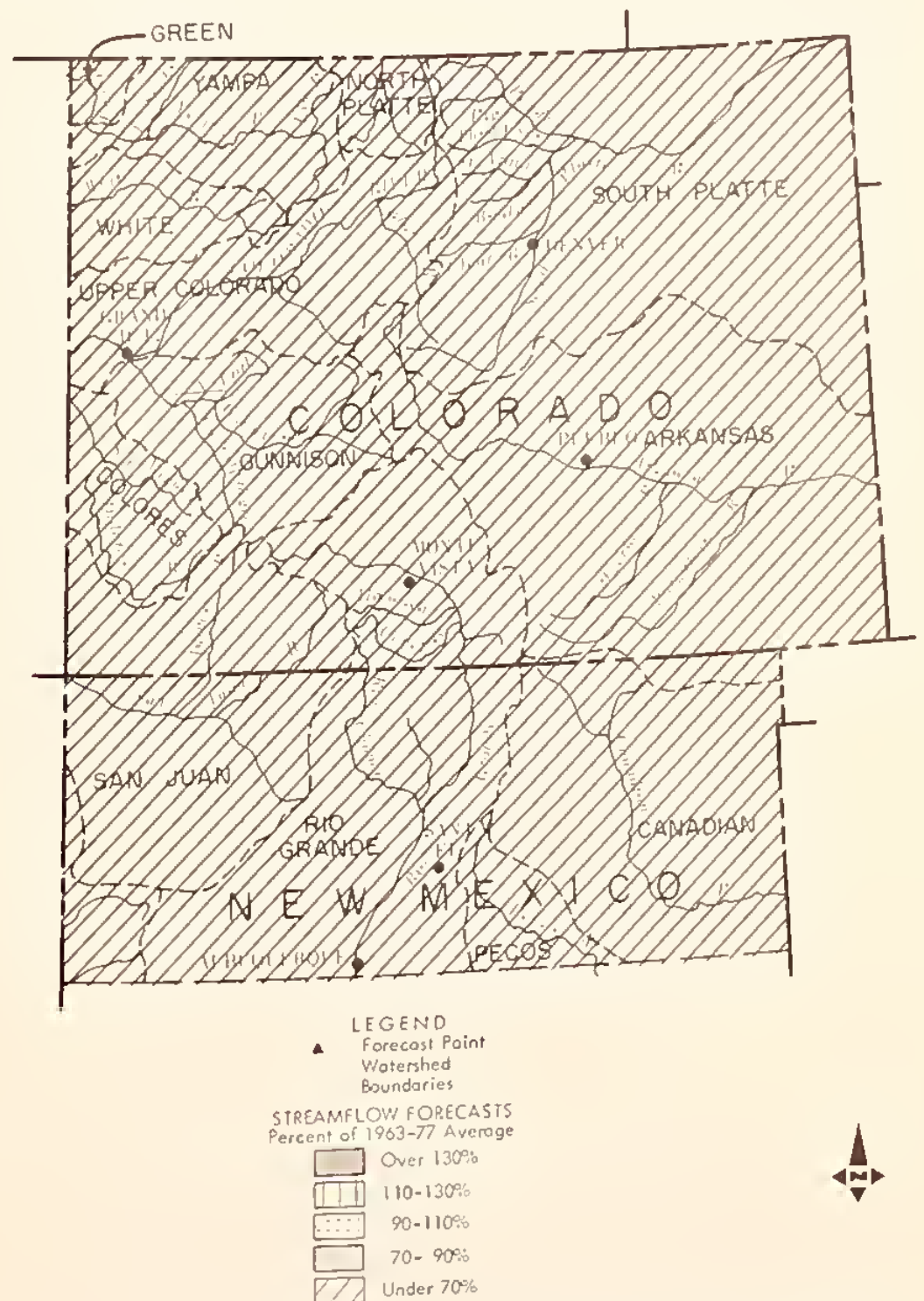
as of

MAY 1, 1981

APRIL BROUGHT A RETURN TO THE PATTERN OF BELOW NORMAL PRECIPITATION WHICH PREVAILED MOST OF THE WINTER. IN ADDITION, ABNORMALLY WARM TEMPERATURES DURING THE MONTH CAUSED A MARKED DROP IN THE MOUNTAIN SNOWPACK. AT ELEVATIONS ABOVE 11,000 FT. WHERE INCREASES IN SNOWPACK ARE NORMALLY EXPECTED, MELT OF FROM 3 TO 7 INCHES OCCURRED. MOST OF THE MELT WHICH OCCURRED DURING APRIL WAS USED IN FULFILLING SOIL MOISTURE DEFICITS AND RESULTED IN MINIMAL RUNOFF. ALL FORECASTS ARE A JOINT EFFORT OF THE SOIL CONSERVATION SERVICE AND THE NATIONAL WEATHER SERVICE.

COLORADO-- BELOW NORMAL PRECIPITATION AND WARM TEMPERATURES DURING APRIL HAVE REDUCED STREAMFLOW FORECASTS AT ALL LOCATIONS FROM THE PREVIOUS MONTH. NEARLY ALL STREAMS ARE PRESENTLY EXPECTED TO FLOW BETWEEN 1/4 TO 1/2 OF NORMAL. STREAMS IN THE HEADWATERS OF THE ARKANSAS, SOUTH PLATTE AND COLORADO RIVER BASINS ARE EXPECTED TO PRODUCE FLOWS NEAR MINIMUM OF RECORD. MOUNTAIN SNOWPACK IN THESE BASINS IS THE LOWEST SINCE MEASUREMENTS BEGAN IN THE MID-1930'S. RESERVOIR STORAGE REMAINS HIGH WITH CONTENTS 12% ABOVE NORMAL.

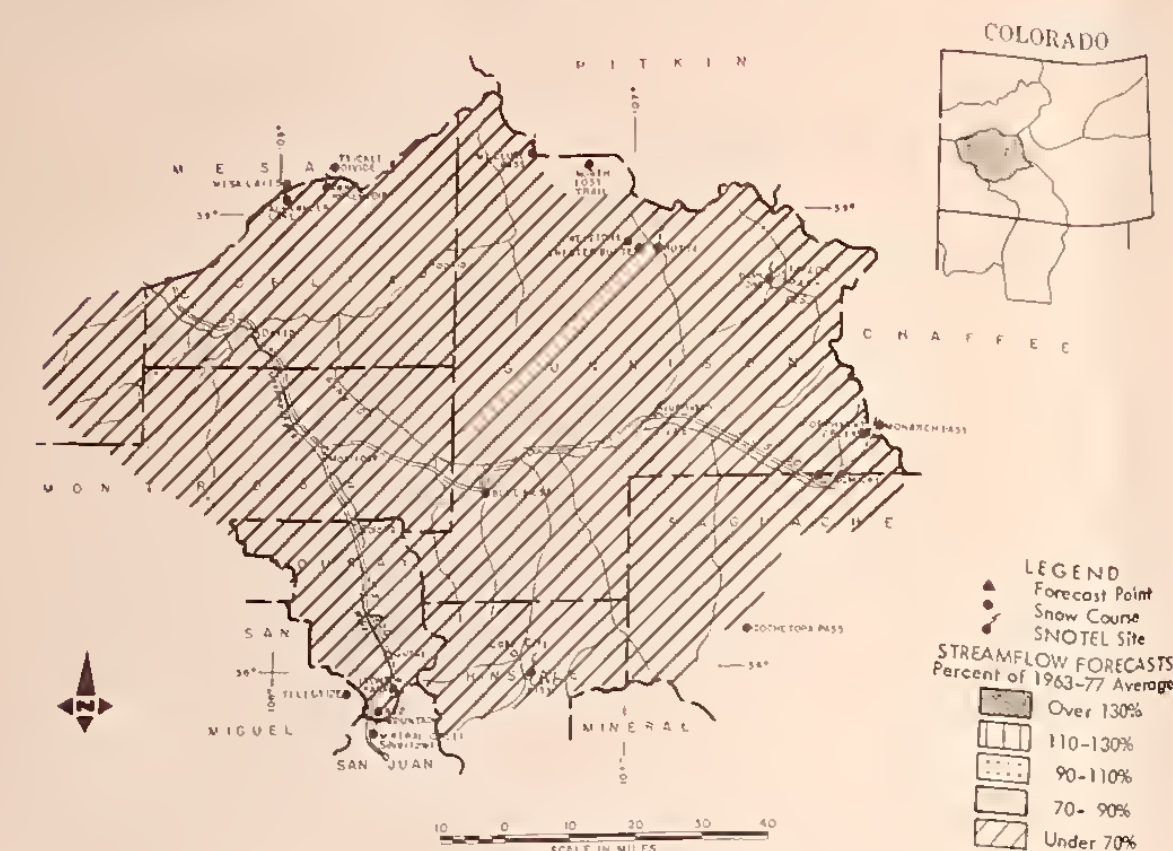
NEW MEXICO-- FEW SNOW COURSE MEASUREMENTS WERE TAKEN NEAR THE END OF APRIL; NEARLY ALL COURSES WERE BARE. PRECIPITATION DURING APRIL WAS 84% OF NORMAL. BELOW NORMAL PRECIPITATION AND HIGH TEMPERATURES REDUCED FORECASTS ON MANY STREAMS. FORECASTS RANGE FROM 19% OF AVERAGE ON THE RIO GRANDE AT SAN MARCIAL TO 66% OF NORMAL ON RED RIVER. PRECIPITATION IN THE HEADWATERS OF THE RIO GRANDE IN COLORADO WAS EXTREMELY DEFICIENT DURING APRIL ACCOUNTING FOR A SUBSTANTIAL REDUCTION IN THE RIO GRANDE MAINSTEM FORECASTS. RESERVOIR STORAGE IS 191% OF NORMAL AND WILL PROVIDE MUCH NEEDED WATER SUPPLIES THIS SUMMER.



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improves. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

"The Conservation of Water begins with the Snow Survey"

GUNNISON RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY

SNOW COURSE MEASUREMENTS TAKEN NEAR MAY 1 INDICATE WELL BELOW AVERAGE SNOWPACK OVER THE ENTIRE BASIN. SURFACE CREEK WATERSHED IS NEAR 47% OF AVERAGE COMPARED TO 72% OF AVERAGE LAST MONTH. THE GUNNISON RIVER BASIN IS ONLY 26% OF AVERAGE COMPARED TO 64% OF AVERAGE LAST MONTH. PRECIPITATION OVER THE ENTIRE DRAINAGE BASIN WAS ONLY 54% OF AVERAGE FOR THE MONTH AND 75% OF AVERAGE FOR THE SEASON. BELOW AVERAGE PRECIPITATION HAS RESULTED IN STREAMFLOW FORECASTS BEING MUCH BELOW AVERAGE. RESERVOIR STORAGE WILL BE NEEDED TO SUPPLEMENT BELOW AVERAGE STREAMFLOWS FOR THE COMING SEASON.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1963-77 Average
Gunnison River inflow to Blue Mesa Reservoir (1)	345	46	754.0
Gunnison River near Grand Junction (2)	380	33	1150.0
North Fork of Gunnison (3)	135	52	262.0
Surface Creek at Cedaredge	10	66	15.2
Uncompahgre River at Colona	65	50	129.0

1- Observed flow plus change in storage in Taylor Reservoir 2- Observed flow plus change in storage in Blue Mesa Reservoir and Taylor Reservoir
 3- Observed flow plus change in storage in Grand Junction Reservoir

WATER SUPPLY OUTLOOK

STREAM AREA	Spring Season	Summer Season
Ohio Creek	Fair	Poor
Slate River	Fair	Poor
Taylor River	Fair	Poor
Tomichi Creek	Poor	Poor

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

NAME OF RESERVOIR	Current Storage	1963-77 Average	1963-77 Minimum	1963-77 Maximum
Blue Mesa	830	390	347	320
Morrow Point	121	117	117	105
Taylor	106	56	48	60

LIST OF COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

STATE

Colorado State Engineer
 Colorado State Soil Conservation Board
 New Mexico State Engineer
 Colorado State University Experiment Station
 Rocky Mountain Forest and Range Experiment Station
 New Mexico Dept. of Game and Fish
 University of Colorado, INSTAAR

FEDERAL

Department of Agriculture
 Forest Service
 Soil Conservation Service
 Department of Interior
 Bureau of Reclamation
 Geological Survey
 National Park Service
 Department of Commerce
 NOAA, National Weather Service
 Defense Department
 Army Engineer Corps
 National Aeronautics and Space Administration
 Goddard Space Flight Center

INVESTOR OWNED UTILITIES

Colorado Public Service Company
 Public Service Company of New Mexico

MUNICIPALITIES

City of Denver
 City of Greeley
 City of Boulder
 City of Fort Collins

SUMMARY of SNOW MEASUREMENTS

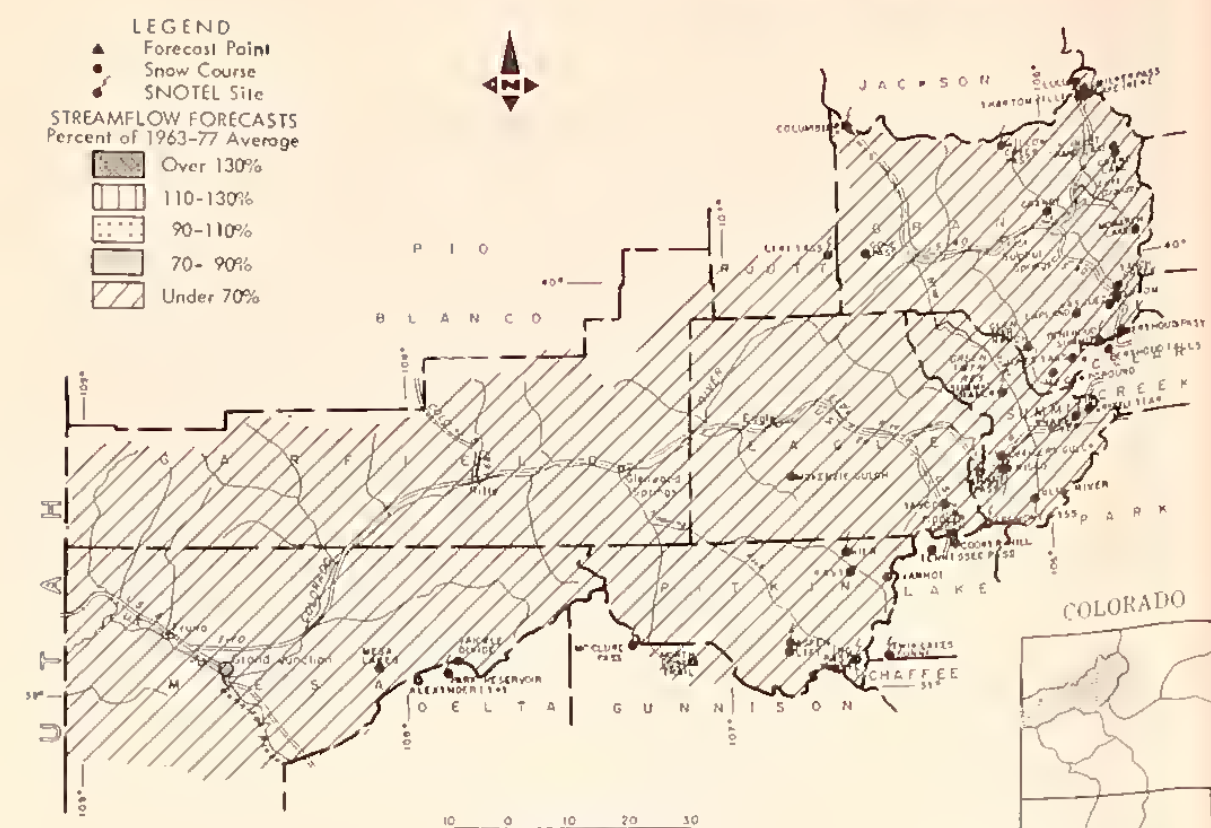
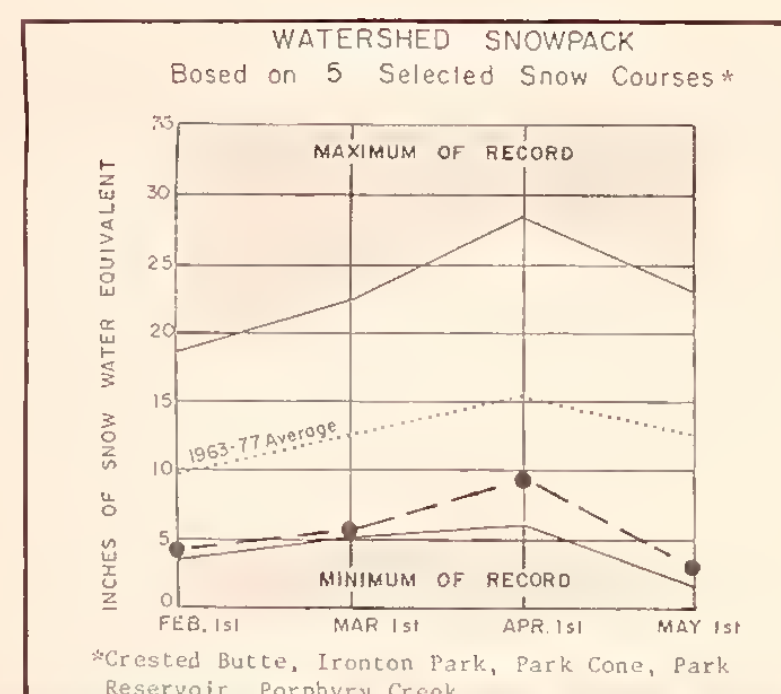
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN AND SUB-WATERSHED	Number of Courses Measured	THIS YEAR'S SNOW WATER AS PERCENT OF	
		1963-77 Last Year	1963-77 Average
Gunnison	13	14	26
Surface Creek	3	30	47
Uncompahgre	3	33	43

SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	CURRENT INFORMATION		PAST RECORD	
			WATER CONTENT (INCHES)	LAST YEAR	WATER CONTENT (INCHES)	AVG. 1963-77
GUNNISON BASIN						
<u>Gunnison River</u>						
Alexander Lake	4/30	27	11.2	34.2	21.5	
Blue Mesa	4/28	0	0.0	6.4	2.7	
Butte	4/27	12	3.1	22.9	12.3	
Cochetopa Pass (B)	4/28	0	0.0	7.5	4.0	
Crested Butte	4/27	0	0.0	17.0	7.2	
Keystone	4/27	0	0.0	28.6	17.0	
Lake City	4/29	0	0.0	7.3	4.6	
Mesa Lakes (B)	4/29	20	7.4	21.5	15.7	
McClure Pass	4/30	0	0.0	18.7	9.9	
Park Cone	4/29	0	0.0	13.1	6.8	
Park Reservoir	4/30	30	9.4	36.2	23.2	
Porphyry Creek	4/29	12	3.8	23.3	16.2	
Slumgullion	4/29	13	4.0	18.0	---	
Tomichi	4/29	0	0.0	14.4	10.3	
<u>Surface Creek</u>						
Alexander Lake	4/30	27	11.2	34.2	21.5	
Mesa Lakes	4/29	20	7.4	21.5	15.7	
Park Reservoir	4/30	30	9.4	36.2	23.2	
<u>Uncompahgre River</u>						
Idarado	4/28	0	0.0	13.7	---	
Ironton Park	4/28	0	0.0	11.9	8.0	
Red Mountain Pass	4/28	50	18.4	38.8	31.9	
Telluride (B)	4/28	0	0.0	5.5	2.5	

1 - 1963-77 Average
 2 - 1963-77 Minimum
 3 - 1963-77 Maximum



YOUR WATER SUPPLY

SNOW SURVEYS NEAR THE END OF APRIL SHOW THE MOUNTAIN SNOWPACK AT ALL TIME RECORD LOW LEVELS IN HEADWATER AREAS NEAR THE CONTINENTAL DIVIDE. DUE TO HIGH TEMPERATURES AND PRECIPITATION WHICH AVERAGED ONLY HALF OF NORMAL DURING APRIL, STREAMFLOW FORECASTS WERE REDUCED ON ALL WATERSHEDS. PREDICTIONS FOR SNOWMELT RUNOFF NOW RANGE FROM A LOW OF 29% OF AVERAGE ON TROUBLESOME CREEK TO A HIGH OF 57% ON THE ROARING FORK. MOST HEADWATER STREAMS NEAR THE CONTINENTAL DIVIDE ARE EXPECTED TO PRODUCE FLOWS NEAR MINIMUM OF RECORD. SUBSTANTIAL MELT OCCURRED DURING APRIL AS HIGH AS 11,000 FT. BUT PRODUCED LITTLE RUNOFF.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1963-77 Average
East Fork Troublesome Creek near Troublesome	5	29	17.0
Blue River inflow to Dillon Reservoir	85	51	167.0
Blue River inflow to Green Mountain Reservoir (1)	145	50	287.0
Colorado River near Cameo (2)	1150	49	2336.0
Colorado River near Dotsero (3)	600	42	1422.0
Colorado River inflow to Granby Reservoir (4)	125	57	218.0
Eagle River below Gypsum	120	40	298.0
Roaring Fork at Glenwood Springs (5)	400	57	697.0
Williams Fork near Marshall (6)	18	30	59.0
Willow Creek inflow to Willow Creek Reservoir	20	42	48.0

1- Observed flow plus change in storage in Dillon Reservoir 2- Observed flow plus change in storage in Green Mountain Reservoir and Dillon Reservoir
 3- Observed flow plus change in storage in Granby Reservoir 4- Observed flow plus change in storage in Granby Reservoir and Willow Creek Reservoir
 5- Observed flow plus change in storage in Glenwood Springs Reservoir 6- Observed flow plus change in storage in Marshall Reservoir

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

NAME OF RESERVOIR	Current Storage	1963-77 Average	1963-77 Minimum	1963-77 Maximum
Dillon	254	185	226	199
Granby	466	285	245	215
Green Mountain	139	68	41	48
Homestake	43	8	10	12
Ruedi	101	79	53	57
Vega	32	17	13	15
Williams Fork	97	70	47	36
Willow Creek	9	6	8	6

WATER SUPPLY OUTLOOK

STREAM AREA	Spring Season	Summer Season
Brush	Fair	Poor
Gypsum Creek	Fair	Poor

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN AND SUB-WATERSHED	Number of Courses Measured	THIS YEAR'S SNOW WATER AS PERCENT OF	
		1963-77 Last Year	1963-77 Average
Blue River	8	20	30
Colorado	20	17	25
Plateau	3	29	43
Roaring Fork	8	31	43
Williams Fork	3	12	18
Willow	2	8	10

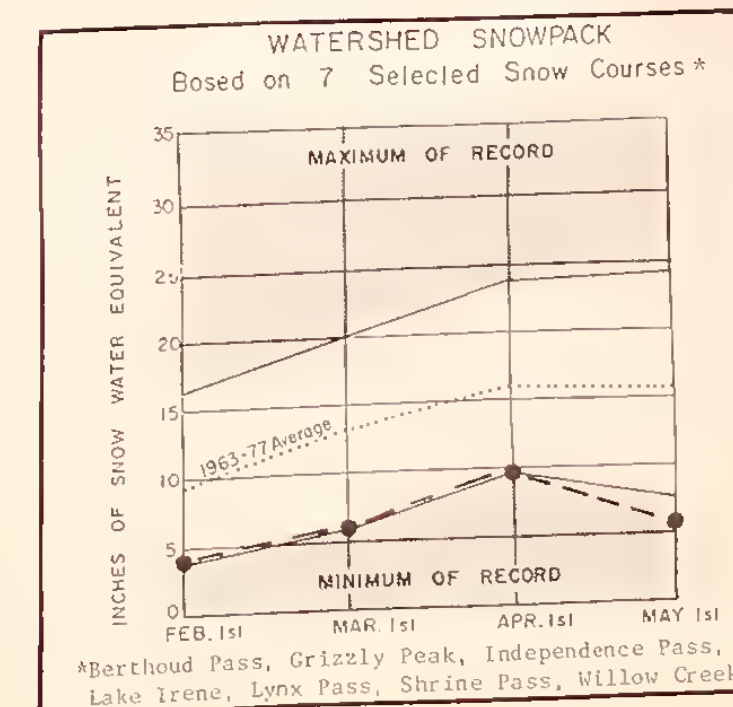
SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	CURRENT INFORMATION		PAST RECORD	
			WATER CONTENT (INCHES)	LAST YEAR	WATER CONTENT (INCHES)	AVG. 1963-77
COLORADO BASIN						
<u>Blue River</u>						
Blue River	4/30	0	0.0	12.8	5.5	
Fremont Pass	4/28	27	7.4	23.4	17.7	
Grizzly Peak	4/29	22	8.3	21.7	19.5	
Hoosier Pass	4/30	4	1.8	19.6	12.3	
Officers Gulch	4/29	0	0.0	7.9	4.8	
Shrine Pass	4/29	28	8.5	21.5	19.0	
Snake River	4/30	0	0.0	9.4	3.5	
Summit Ranch	4/29	0	0.0	10.6	5.2	
<u>Colorado River</u>						
Arrow	4/29	0	0.0	17.0	11.5	
Berthoud Pass	4/30	13	4.0	22.0	15.7	
Berthoud Summit	4/29	27	9.4	25.4	20.5	
Cooper Hill	4/28	22	5.7	17.9	11.7	
Copper Mountain	4/29	11	4.8	17.0	---	
Glenmar Ranch	4/29	0	0.0	7.0	4.6	
Gore Pass	4/29	0	0.0	9.1	7.7	
Grand Lake	4/23	0	0.0	11.0	5.0	
Lake Irene	4/23	29	9.6	29.0	21.9	
Lapland	4/27	3	1.1	11.1	7.5	
Lulu	4/26	29	9.8	27.7	20.4	
Lynx Pass	4/29	0	0.0	10.5	8.7	
McKenzie Gulch	4/29	0	0.0	2.7	1.7	
Middle Fork	4/29	0	0.0	10.7	6.3	
Milner	4/23	14	4.3	16.2	12.4	
North Inlet	4/24	2	0.5	9.9	6.3	
Pando	4/29	0	0.0	9.1	7.1	
Phantom Valley	4/23	0	0.0	14.2	7.1	
Ranch Creek	4/28	0	0.0	12.4	7.4	
Tennessee Pass (B)	4/29	37	12.6	28.6	---	
Vail Mountain	4/28	19	6.4	18.8	12.6	
Vasquez	4/28	19	6.4	18.8	12.6	
<u>Plateau Creek</u>						
Mesa Lakes	4/29	20	7.4	21.5	15.7	
Park Reservoir	4/30	30	9.4	36.2	23.2	
Trickle Divide	4/30	39	12.5	39.7	26.4	
<u>Roaring Fork</u>						
Aspen	4/25	31	10.4	19.0	18.4	
Independence Pass	4/27	20	6.3	22.3	15.7	
Ivanhoe	4/28	27	8.8	21.4	18.3	
Kiln	4/28	13	3.8	14.0	10.7	
Lift	4/25	38	14.8	23.8	18.6	
McClure Pass	4/30	0	0.0	18.7	9.9	
Nast	4/28	0	0.0	5.8	2.4	
North Lost Trail	4/30	0	0.0	18.2	8.6	
<u>Williams Fork River</u>						
Glenmar Ranch	4/29	0	0.0	7.0	4.6	
Jones Pass	4/28	15	4.9	23.1	15.6	
Middle Fork	4/29	0	0.0	10.7	6.3	
Ute Pass	4/30	0	0.0	10.2	---	
<u>Willow Creek</u>						
Granby	4/26	0	0.0	6.3	4.4	
Willow Creek Pass	4/27	4	1.5	13.7	10.8	

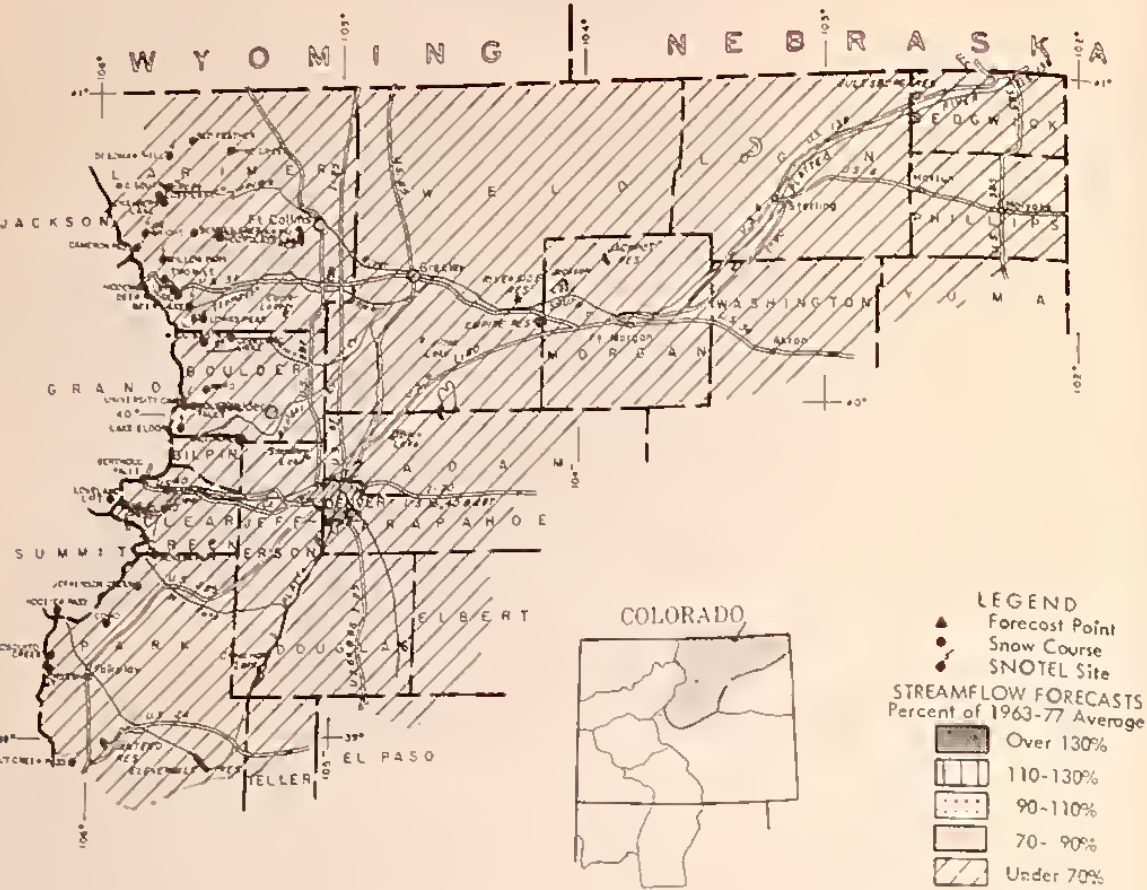
Scale bar.
 (B)-On adjacent drainage.



Access to mountain lakes and streams will occur early this year because of the low snowpack. (Photo courtesy of Colorado Division of Wildlife.)



SOUTH PLATTE RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY
 APRIL BROUGHT A RETURN TO THE PATTERN OF DEFICIENT PRECIPITATION PREVALENT DURING MOST OF THE WINTER. PRECIPITATION AVERAGED ONLY 38% OF NORMAL FOR THE MONTH AT HIGHER ELEVATIONS. HIGH TEMPERATURES COUPLED WITH LOW PRECIPITATION HAS REDUCED MOUNTAIN SNOWPACK TO RECORD LOW LEVELS. AS OF MAY 1, SNOWPACK LEVELS WERE ONLY 20% OF NORMAL AND ONLY 14% OF THE SAME TIME A YEAR AGO. AS A RESULT, ALL STREAMS IN THE BASIN ARE PREDICTED TO PRODUCE FLOWS NEAR OR BELOW MINIMUMS OF RECORD IF AVERAGE PRECIPITATION IS RECEIVED THE REMAINDER OF THE SUMMER. RESERVOIR LEVELS ARE 8% ABOVE AVERAGE. SOIL MOISTURE IS FAIR IN IRRIGATED AREAS.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1963-77 Average
Bear Creek at Morrison	9.5	34	28.0
Big Thompson River at Drake (1)	50	49	102.0
Boulder Creek at Orodell	20	44	45.1
Cache La Poudre River at Canyon Mouth (2)	118	49	243.0
Clear Creek at Golden (3)	50	42	120.0
St. Vrain Creek at Lyons	30	42	71.6
South Platte River at South Platte	55	28	193.0

WATER SUPPLY OUTLOOK

Stream or Area	Spring Season	Late Season
Coal Creek	Poor	Poor
North Fork of South Platte	Poor	Poor
North Fork of Cache La Poudre	Fair	Poor
Ralston Creek	Poor	Poor
Rock Creek	Poor	Poor
South Platte from Greeley to Fort Morgan	Poor	Poor
South Platte from Fort Morgan to Sterling	Poor	Poor
South Platte below Sterling	Poor	Poor

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Reservoir	Current	1963-77	1963-77
Antero	16	16	14
Barr Lake	32	28	30
Black Hollow	8	3	6
Boyd Lake	44	37	49
Cache La Poudre	10	9	10
Carter Lake	109	98	107
Chambers Lake	9	3	6
Cheesman	79	70	79
Cobb Lake	34	12	21
Eleven Mile	98	98	98
Empire	38	33	30
Fossil Creek	12	7	6
Gross	43	21	19
Halligan	6	6	6
Horsetooth	144	128	135
Jackson	35	34	32
Julesburg	28	23	23
Lake Loveland	14	10	12
Lone Tree	9	6	8
Mariano	6	5	5
Marshall	10	6	9
Marston	17	16	16
Milton	24	35	16
Point of Rocks	70	71	70
Prewitt	33	28	28
Riverside	58	58	52
Standley	42	34	41
Terry	8	5	3
Union	13	12	13
Windsor	19	15	15



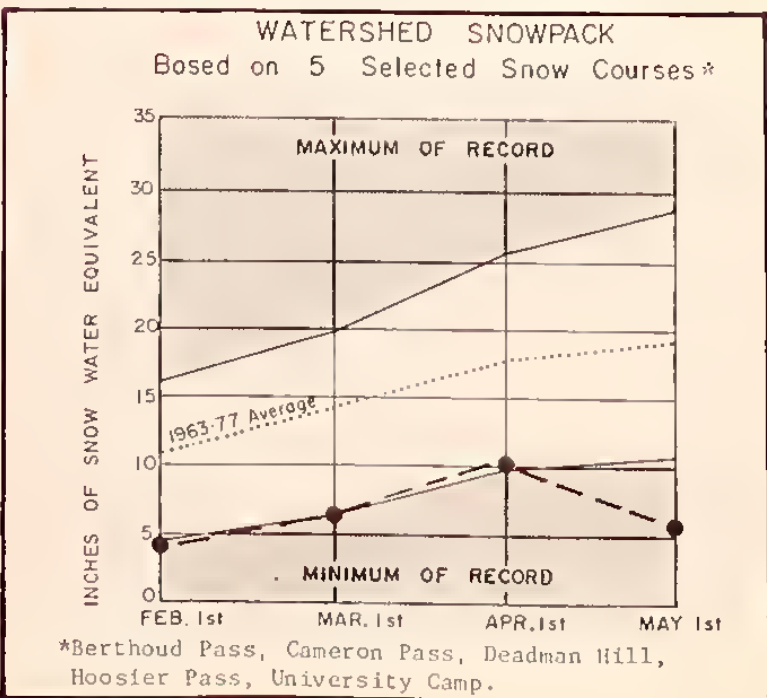
SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

River Basin and Subwatershed	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		1963-77	1963-77 Average
Big Thompson	3	11	17
Boulder	5	18	25
Cache La Poudre	9	22	27
Clear Creek	5	13	19
Saint Vrain	3	6	11
South Platte	3	11	17

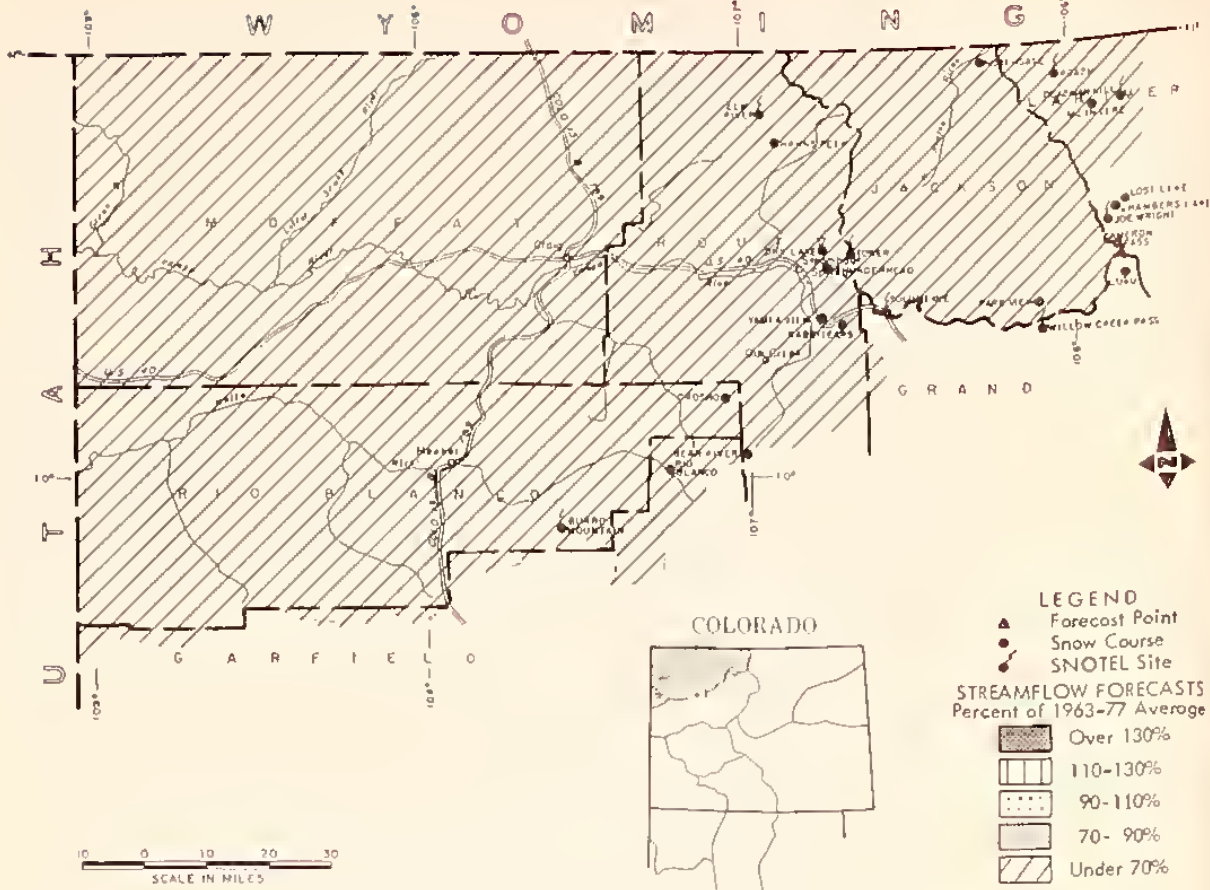
SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	CURRENT INFORMATION		PAST RECORD	
		SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	AVG. 1963-77
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	4/29	0	0.0	10.4	4.5
Boulder Falls	4/27	4	1.2	17.9	12.5
Lake Eldora	4/27	00	0.0	15.3	---
Niwot	4/30	0	0.0	---	---
University Camp	4/27	14	4.8	24.7	18.4
<u>Big Thompson River</u>					
Bear Lake	4/28	17	4.9	21.6	---
Deer Ridge	4/29	0	0.0	7.7	2.7
Hidden Valley	4/30	0	0.0	13.7	10.0
Lake Irene (B)	4/23	29	9.6	29.0	21.9
Long's Peak	4/28	6	2.2	16.1	12.3
Two Mile	4/30	14	4.1	20.9	16.9
Willow Park	4/29	14	4.8	29.9	---
<u>Cache La Poudre</u>					
Bennett Creek	4/29	0	0.0	10.0	5.1
Big South	4/30	0	0.0	0.0	0.6
Cameron Pass	4/30	24	10.0	31.0	32.1
Chambers Lake	4/30	0	0.0	10.8	6.4
Deadman Hill	4/29	23	6.8	21.5	17.8
Hourglass Lake	4/29	3	0.6	9.9	6.4
Joe Wright	4/30	17	12.9	31.1	28.8
Lost Lake	4/30	0	0.0	14.1	9.6
Red Feather	4/29	0	0.0	9.6	5.5
<u>Clear Creek</u>					
Baltimore (B)	4/29	0	0.0	10.4	4.5
Berthoud Falls	4/27	4	1.2	20.2	11.9
Empire	4/29	0	0.0	11.6	7.4
Grizzly Peak (B)	4/29	22	8.3	21.7	19.5
Loveland Pass	4/30	4	1.5	19.6	14.6
<u>St. Vrain River</u>					
Copeland Lake	4/25	0	0.0	8.3	2.8
Ward	4/27	0	0.0	8.9	5.5
Wild Basin	4/25	7	2.2	17.8	11.5
<u>South Platte River</u>					
Bison Reservoir	4/29	0	0.0	8.6	---
Como	4/29	0	0.0	9.1	5.2
Geneva Park	4/28	0	0.0	4.8	2.1
Horseshoe Mountain	4/29	1	0.4	17.7	10.4
Hoosier Pass	4/30	4	1.9	19.6	12.3
Jefferson Creek	4/29	0	0.0	14.1	8.0
Yosemite	4/30	0	0.0	15.9	6.1
Trout Creek Pass	4/29	0	0.0	7.7	1.9

(B) - On adjacent drainage.



YAMPA, WHITE AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO



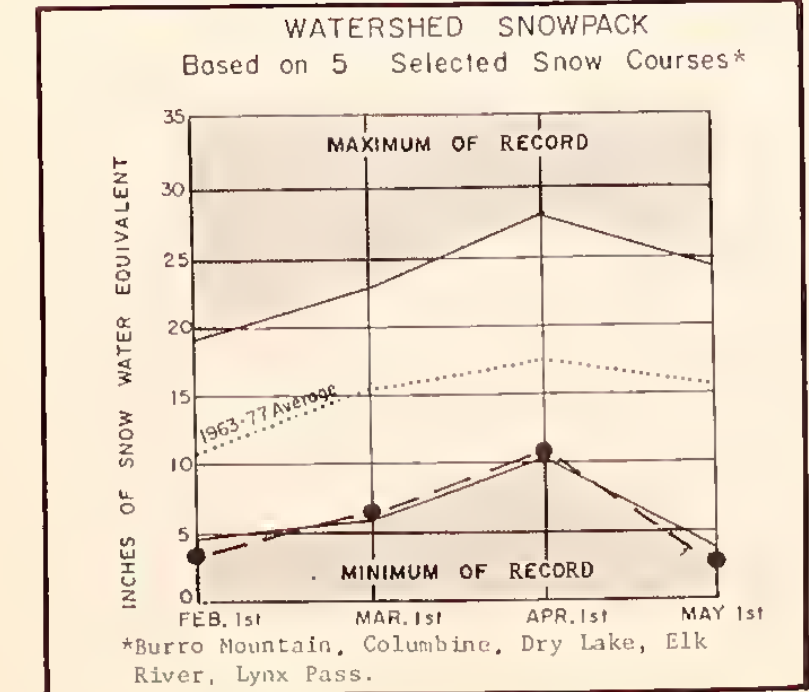
YOUR WATER SUPPLY
 PRECIPITATION OVER THE BASIN WAS ONLY 42% OF NORMAL FOR THE MONTH. NEW MINIMUM SNOW COURSE VALUES WERE RECORDED THIS MONTH. CAMERON PASS, IN THE NORTH PLATTE BASIN, RECORDED 10.0 INCHES OF WATER. THIS IS LESS THAN HALF THE PREVIOUS MINIMUM. TOWER SNOW COURSE NEW MINIMUM IS NOW 28.6 INCHES COMPARED TO 29.5 INCHES OF WATER RECORDED IN 1977. STREAMFLOW FORECASTS HAVE DECREASED FROM LAST MONTH BECAUSE OF BELOW AVERAGE PRECIPITATION. THEY RANGE FROM A HIGH OF 56% OF AVERAGE ON THE WHITE RIVER AT MEEKER TO A LOW OF 31% OF AVERAGE ON THE LARAMIE RIVER.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1963-77 Average
Elk River at Clark	105	53	198.0
Laramie River near Woods	39	31	125.0
Little Snake River at Lily	150	43	349.0
North Platte River at Northgate	56	24	238.0
White River near Meeker	160	56	287.0
Yampa River near Maybell	400	44	905.0
Yampa River at Steamboat Springs	130	48	273.0

WATER SUPPLY OUTLOOK

Stream or Area	Spring Season	Late Season
Canadian River	Fair	Poor
Hunt Creek	Poor	Poor
Illinois River	Poor	Poor
Michigan River	Fair	Poor
Oak Creek	Poor	Poor
Trout Creek	Poor	Poor



SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

River Basin and Subwatershed	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		1963-77	1963-77 Average
Elk	2	0	0
Laramie	3	21	33
North Platte	5	17	19
White	2	13	16
Yampa	8	26	32

SNOW COURSE MEASUREMENTS

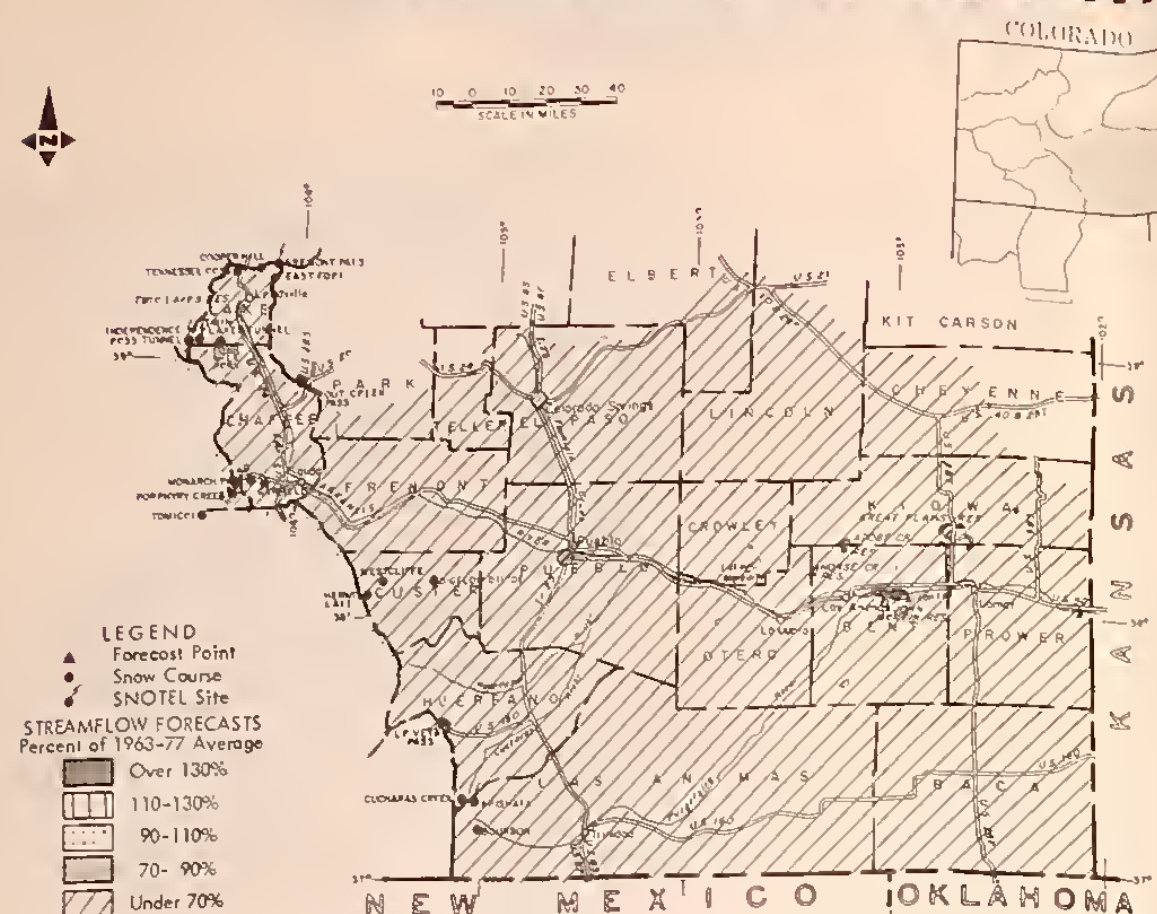
SNOW COURSE	DATE OF SURVEY	CURRENT INFORMATION		PAST RECORD	
		SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	LAST YEAR	AVG. 1963-77
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	4/27	2	6.8	21.5	17.8
McIntyre	4/27	2	0.4	13.4	10.7
Roach	4/27	28	8.7	25.2	19.5
<u>North Platte River</u>					
Cameron Pass	4/30	24	10.1	31.0	32.1
Columbine Lodge	4/27	3	1.9	23.6	20.7
Northgate	4/28	0	0.0	7.3	4.1
Park View	4/27	1	0.3	7.6	6.8
Willow Cr. Pass (B)	4/27	4	1.5	13.7	10.8
YAMPA BASIN					
<u>Elk River</u>					
Elk River	4/29	0	0.0	18.6	16.1
Hahn's Peak	4/29	0	0.0	14.6	9.1
<u>White River</u>					
Burro Mountain	4/28	13	4.0	17.4	14.9
Rio Blanco	4/28	0	0.0	14.0	10.4
<u>Yampa River</u>					
Bear River	4/30	0	0.0	11.4	7.5
Columbine (B)	4/27	3	1.9	23.6	20.7
Crosby	4/30	0	0.0	16.7	11.8
Dry Lake	4/27	17	7.0	24.2	17.8
Lynx Pass (B)	4/29	0	0.0	10.5	8.7
Rabbit Ears	4/27	36	11.6	29.6	27.1
Tower	4/28	70	28.7	59.4	53.5
Yampa View	4/27	0	0.0	14.3	9.8

(B) - adjacent drainage.



Snow sensor performance evaluation at the Columbine Lodge snow research site.

ARKANSAS RIVER WATERSHED IN COLORADO



YOUR WATER SUPPLY
 THE OUTLOOK FOR THE COMING SEASON'S RUNOFF HAS SUBSTANTIALLY DETERIORATED FROM THE PREVIOUS MONTH AS A RESULT OF PRECIPITATION DURING APRIL WHICH AVERAGED ONLY 1/4 OF NORMAL AND A MOUNTAIN SNOWPACK WHICH IS THE LOWEST ON RECORD. BY THE FIRST OF MAY THERE WAS VIRTUALLY NO SNOW BELOW 10,500 FT. IN THE HEADWATERS OF THE ARKANSAS RIVER. SNOWMELT RUNOFF IS PREDICTED TO BE ONLY 25% OF NORMAL ON THE ARKANSAS RIVER AT PUEBLO. STORAGE IN MAJOR RESERVOIRS IS 160% OF NORMAL AND WILL HELP REDUCE THE IMPACT OF THE EXTREMELY POOR RUNOFF CURRENTLY ANTICIPATED. SOIL MOISTURE IS RATED AT FAIR TO POOR.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1963-77 Average
Arkansas River abv Pueblo (1)	65	25	260.0
Arkansas River at Salida (2)	115	40	280.0
Cucharas River near La Veta	4	44	5.1
Huerfano River near Redwing	6	45	13.4
Purgatoire River at Trinidad (3)	14	42	32.8
Grape Creek near Westcliffe	6	38	16.0

(1) Plus change in storage in Pueblo Reservoir. (2) Observed flow plus change in storage in Pueblo Reservoir. (3) Observed flow plus change in storage in Trinidad Reservoir.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and Reservoir	Usable Capacity	This Year	Last Year	1963-77 Average
Adobe	60	35	1	11
Clear Creek	11	6	8	7
Great Plains	150	12	0	42
Holbrook Lake	7	4	6	—
Horse Creek	27	18	20	4
John Martin	621	73	45	39
Lake Henry	8	7	7	—
Meredith	42	2	0	9
Pueblo	351	80	68	—
Trinidad	158	43	23	—
Turquoise	121	70	68	30
Twin Lakes	68	46	33	22



Soil moisture measurements can help plan the application of limited water supplies which are expected during this irrigation season.



Many snow measuring sites have gone bare a month earlier than normal this year as shown at Apishapa SNOTEL data site.

SUMMARY of SNOW MEASUREMENTS

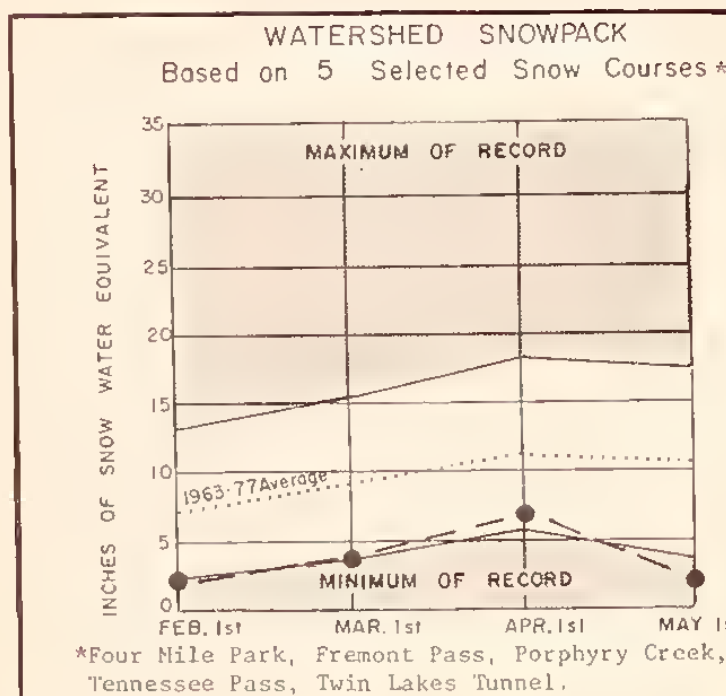
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN AND SUBWATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		LAST YEAR	1963-77 Average
Arkansas	11	8	14
Cucharas	3	0	0
Purgatoire	1	0	0

SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD	
				LAST YEAR	1963-77 Average
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	4/24	0	0.0	14.8	4.7
Brumley	4/28	0	0.0	14.9	---
Cooper Hill (B)	4/28	22	5.7	17.9	11.7
East Fork	4/28	2	0.6	11.6	7.3
Four Mile Park	4/28	0	0.0	6.8	1.6
Fremont Pass	4/28	27	7.4	23.4	17.7
Garfield	4/29	0	0.0	22.0	9.5
Hermit Lake	4/24	0	0.0	11.3	6.8
Monarch Pass	4/26	0	0.0	23.5	15.3
South Colony	4/29	0	0.0	27.2	---
Tennessee Pass	4/28	0	0.0	12.4	7.4
Twin Lakes Tunnel	4/27	0	0.0	15.3	9.5
Westcliffe	4/24	0	0.0	7.8	2.5
<u>Cucharas River</u>					
Apishapa	4/29	0	0.0	11.9	3.7
Cucharas Creek	4/29	0	0.0	14.6	6.2
La Veta Pass (B)	4/29	0	0.0	14.1	3.2
Huerfano	4/29	0	0.0	12.2	---
<u>Purgatoire River</u>					
Bourbon	4/29	0	0.0	11.0	2.7
Whiskey Creek	4/29	0	0.0	12.2	---

(A) No survey.
 (B) On adjacent drainage.



RIO GRANDE WATERSHED IN COLORADO AND NEW MEXICO



LEGEND
 ▲ Forecast Point
 ● Snow Course
 ○ SNOTEL Site
 STREAMFLOW FORECASTS
 Percent of 1963-77 Average
 Over 130%
 110-130%
 90-110%
 70-90%
 Under 70%

0 10 20 30 40
 SCALE IN MILES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Basin or Stream and Reservoir	Usable Capacity	This Year	Last Year	1963-77 Average
COLORADO				
Continental	27	9	8	5
Platoro	75	20	20	10
Rio Grande	51	26	42	19
Sanchez	103	18	22	11
Santa Maria	45	8	13	7
Terrace	18	1	8	7
NEW MEXICO				
Avalon	5	2	2	1
Caballo	344	65	92	66
Conchas	273	26	67	122
El Vado	195	118	123	52
Elephant Butte	2195	1160	938	348
McMillan	34	3	16	12
Sumner	11	27	55	42

SUMMARY of SNOW MEASUREMENTS

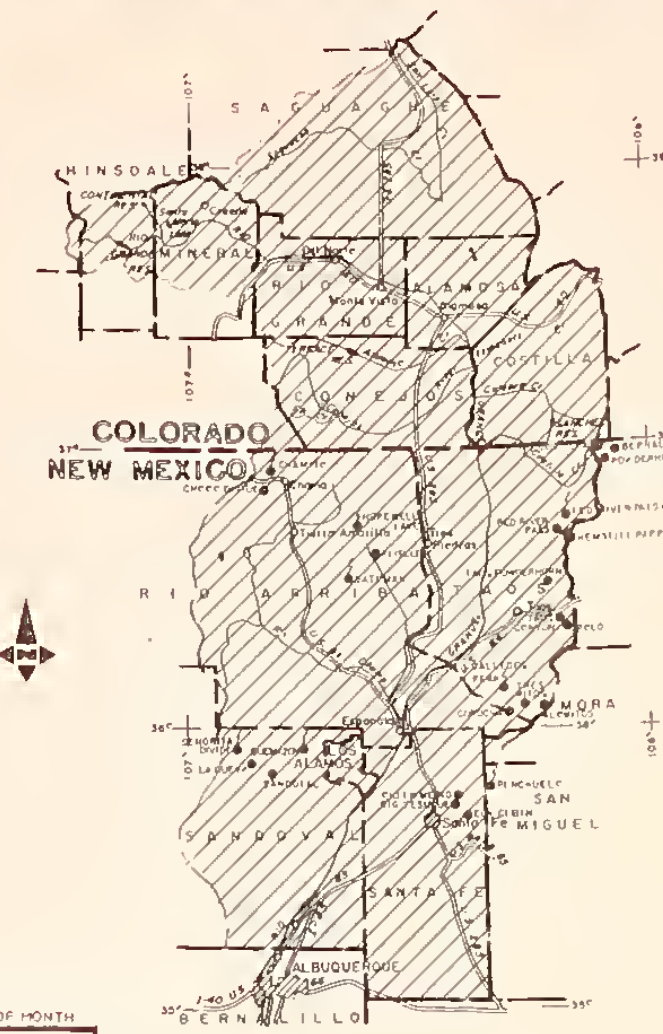
(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN AND SUBWATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		LAST YEAR	1963-77 Average
COLORADO			
Alamosa	1	0	0
Conejos	6	10	22
Culebra	4	4	11
Rio Grande, CO	13	20	36

SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD	
				LAST YEAR	1963-77 Average
RIO GRANDE BASIN-COLO.					
<u>Alamosa River</u>					
Lily Pond	4/28	0	0.0	23.0	---
Silver Lakes	4/29	0	0.0	1.8	1.6
<u>Conejos River</u>					
Cumbres Pass	4/29	8	3.1	37.6	14.7
Cumbres Trestle	4/29	18	6.4	45.8	17.7
La Nanga	4/29	17	4.1	31.3	16.7
Pinos Mill	4/29	8	3.2	41.0	21.9
Platoro	4/29	5	1.7	23.5	11.8
River Springs	4/29	0	0.0	0.8	0.7
<u>Culebra River</u>					
Brown Cabin	4/28	0	0.0	7.7	1.9
Cochetopa Pass	4/29	4	1.3	11.3	5.2
Culebra	4/29	0	0.0	14.1	3.2
La Veta Pass (B)	4/28	2	0.4	11.0	6.1
Trinchera (B)	4/28	2	0.4	11.0	6.1
<u>Rio Grande</u>					
Big Meadows	4/28	0	0.0	22.4	10.0
Cochetopa Pass	4/28	0	0.0	7.5	4.0
Grayback	4/28	19	5.0	19.8	13.2
Hwy	4/28	38	14.6	40.3	26.0
Lake Humphrey	4/29	0	0.0	7.3	2.1
Love Lake	4/27	0	0.0	12.2	6.0
Middle Creek	4/27	27	9.9	27.3	---
Pass Creek	4/28	0	0.0	16.1	5.3
Pool Table	4/27	0	0.0	5.9	3.1
Porcupine	4/28	1	0.3	10.6	6.6
Santa Maria	4/30	0	0.0	2.5	1.4
Upper Rio Grande	4/30	3	1.1	10.2	3.5
Wolf Creek Pass	4/28	27	9.5	42.5	22.8
Wolf Cr. Summit (B)	4/28	48	19.0	44.4	30.8

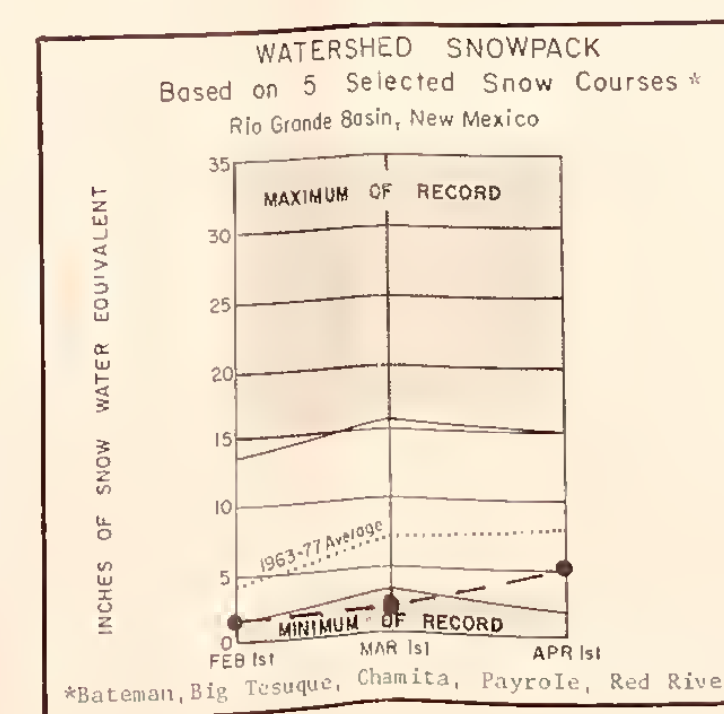
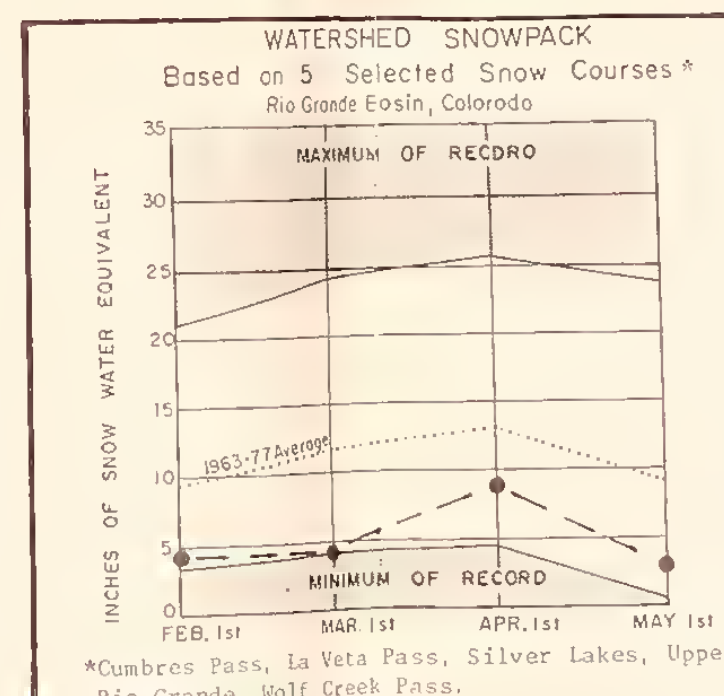
(A) No survey.
 (B) On adjacent drainage.



WATER SUPPLY OUTLOOK

Estimated as "Poor, Fair, Average, Good, Excellent" with Respect to Usual Supply

STREAM or AREA	Spring Season	Leaf Season
COLORADO		
Sangre de Cristo Cr	Poor	Poor
Trinchera Creek	Poor	Poor
NEW MEXICO		
Embudo Creek	Poor	Poor
Mora River	Poor	Poor
Nambe Creek	Poor	Poor
Rio Ojo Caliente	Fair	Poor
Santa Fe Creek	Poor	Poor



YOUR WATER SUPPLY

PRECIPITATION DURING APRIL WAS MUCH BELOW NORMAL WHILE TEMPERATURES WERE ABOVE. THIS COMBINATION OF WEATHER ELEMENTS RESULTED IN A RAPID DETERIORATION OF THE MOUNTAIN SNOWPACK CONDITIONS IN BOTH COLORADO AND NEW MEXICO. SNOWPACK IN THE UPPER RIO GRANDE BASIN IN COLORADO IS 29% OF NORMAL COMPARED TO 66% OF NORMAL A MONTH AGO. HOWEVER, CONDITIONS REMAIN BETTER THAN IN 1977, THE LAST DROUGHT YEAR. PREDICTIONS OF SPRING AND SUMMER RUNOFF HAVE ALL BEEN REDUCED TO REFLECT THE DRIER CONDITIONS. ON THE MAINSTEM OF THE RIO GRANDE, STREAMFLOW FORECASTS STEADILY DECREASE MOVING DOWNSTREAM. AT DEL NORTE THE FORECAST IS 50% OF AVERAGE WHILE AT SAN MARCIAL THE FORECAST IS ONLY 19% OF AVERAGE. MOST TRIBUTARY STREAMS TO THE RIO GRANDE ARE EXPECTED TO FLOW 1/3 TO 1/2 OF NORMAL. RESERVOIR STORAGE IS 39% ABOVE NORMAL IN COLORADO AND 118% ABOVE NORMAL IN NEW MEXICO.

STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	Forecast	% of Average	1963-77 Average
COLORADO (April-September)			
Alamosa Creek above Terrace Reservoir	30	47	63.6
Conejos River near Mogote (1)	115	63	183.0
Culebra Creek at San Luis (2)	8	52	15.3
La Jara Creek near Capulin	3.5	46	7.6
Los Pinos River near Ortiz	30	49	61.3
Rio Grande at Thirty Mile Bridge (3)	65	55	119.0
Rio Grande near Del Norte (3)	230	50	462.0
Saguache Creek near Saguache	14	47	30.1
San Antonio River at Ortiz	4	33	12.2
South Fork of Rio Grande at South Fork	65	55	119.0
Trinchera Water Supply (April-July) (6)	12	55	21.9
NEW MEXICO (March-July)			
Costilla Creek at Costilla (4)	9	58	15.4
Jemez River near Jemez	20	60	33.3
Pecos River at Pecos	16	42	38.1
Red River at Mouth	18	66	27.2
Rio Chama at El Vado	80	45	177.0
Rio Grande at Otowi (5)	180	36	497.0
Rio Grande at San Marcial (5)	65	19	335.0
Rio Hondo near Valdez	7	55	12.8
Rio Pueblo de Taos below Los Cordovas	6	32	19.0
Santa Cruz River at Cundiyo	4	34	11.6

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

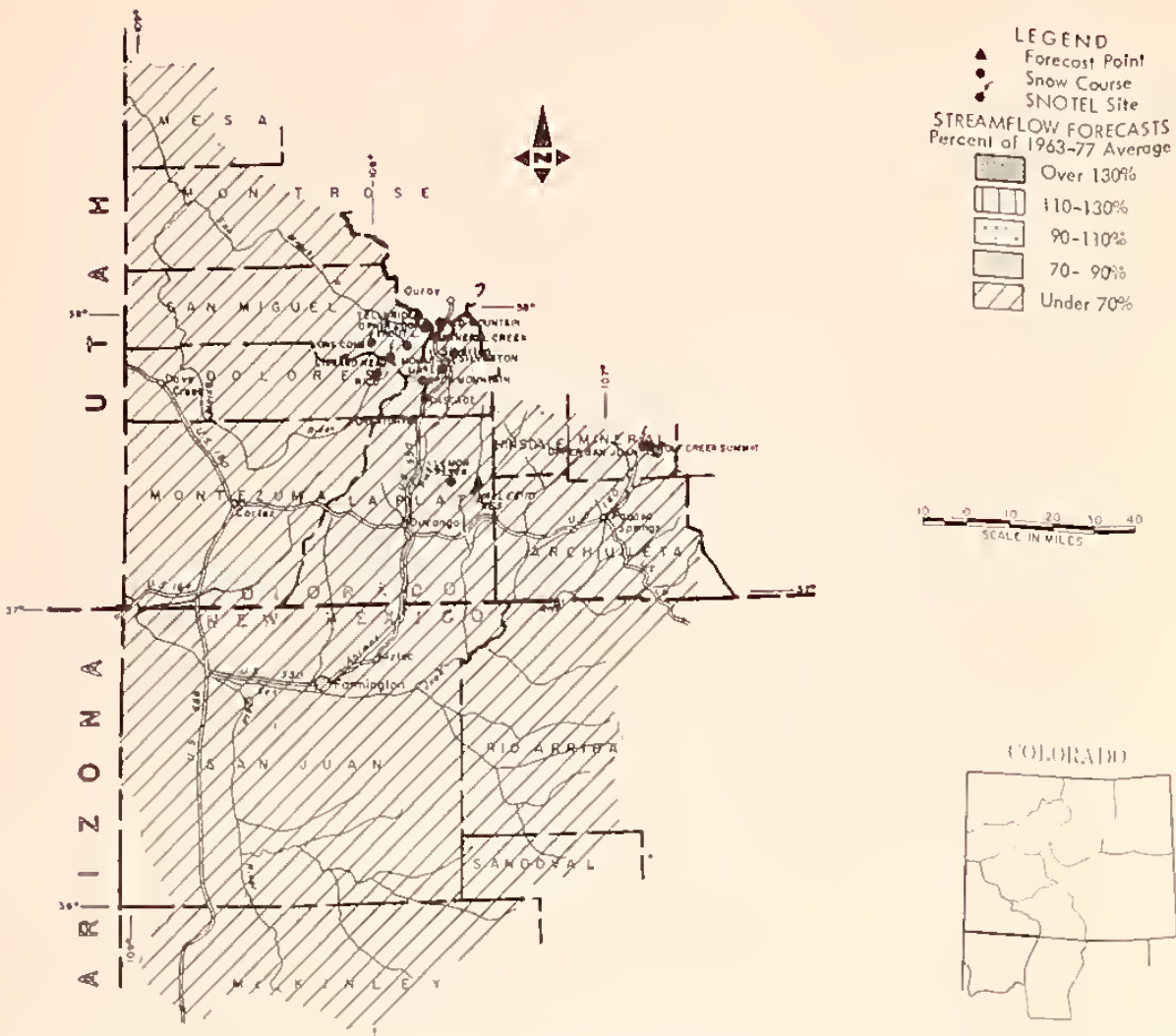
RIVER BASIN AND SUBWATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		LAST YEAR	1963-77 Average
NEW MEXICO			
Pecos	---	---	---
Red River	---	---	---
Rio Chama	---	---	---
Rio Grande, NM	---	---	---
Rio Hondo	---	---	---

SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD	
				LAST YEAR	1963-77 Average
RIO GRANDE BASIN - NM					
<u>Pecos River</u>					
Panchuelo	4/30	0	0.0	0.0	---
<u>Red River</u>					
Hematite Park (B)	4/30	0	0.0	---	---
Red River	4/28	0	0.0	5.3	---
<u>Rio Chama</u>					
Bateman	4/28	4	1.2	17.3	---
Chama Divide	4/29	0	0.0	---	---
Chamita	4/29	0	0.0	7.3	0.7
<u>Rio Grande</u>					
Alamitos	N/S	---	---	---	---
Bernal Trail (B)	N/S	---	---	---	---
Big Tesuque	N/S	---	---	---	---
Cordova	N/S	---	---	---	---
Elk Cabin	4/28	0	0.0	9.4	---
Gallegos Peak	4/30	0	0.0	24.4	13.3
Hopewell	N/S	---	---	---	---
La Cueva	4/29	0	0.0	---	---
North Costilla	4/30	0	0.0	7.0	---
Payrole	N/S	---	---	---	---
Queamazon	4/30	5	1.1	11.8	---
Rio En Medio	4/29	0	0.0	11.3	3.2
San Antonio Sink	4/28	0	0.0	8.6	---
Sandoval	N/S	---	---	---	---
Senorita Divide	N/S	---	---	---	---
Taos Canyon	N/S	---	---	---	---
Tres Ritos	N/S	---	---	---	---
<u>Rio Hondo</u>					
Taos Powderhorn	N/S	---	---	---	---

(A) No survey.
 (B) On adjacent drainage.

SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO



SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		LAST YEAR	1961-77 Average
Animas	8	20	33
Dolores	5	11	22
San Juan	6	23	38

SNOW COURSE MEASUREMENTS

SNOW COURSE	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	PAST RECORD	
				WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 61-77
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	4/28	0	0.0	15.9	5.3
Lemon	4/29	0	0.0	12.6	3.7
Mineral Creek	4/28	0	0.0	21.0	11.5
Molas Lake	4/28	0	0.0	17.3	8.3
Purgatory	4/29	23	8.2	28.3	18.8
Red Mt. Pass (B)	4/28	50	18.4	38.8	31.9
Silverton Sub-Sta.	4/28	0	0.0	6.3	1.6
Spud Mountain	4/28	23	7.8	32.8	21.8
<u>Dolores River</u>					
Groundhog	4/30	0	0.0	14.2	---
Lizard Head	4/29	14	4.6	23.2	14.7
Lone Cone	4/27	13	4.0	19.9	10.0
Ophir Loop	4/28	19	6.3	20.0	---
Rico	4/29	0	0.0	10.9	1.3
Telluride	4/28	0	0.0	5.5	2.5
Trout Lake	4/28	0	0.0	20.3	9.3
<u>San Juan River</u>					
Chama Divide (B)	4/29	0	0.0	---	0.0
Chamita (B)	4/29	0	0.0	7.3	0.7
La Plata	4/29	6	2.5	36.5	---
Mancos T-Down	4/29	0	0.0	32.0	25.9
Upper San Juan	4/28	31	11.7	47.4	24.9
Wolf Cr. Pass (B)	4/28	27	9.5	42.5	22.8
Wolf Cr. Summit	4/28	48	19.0	44.4	30.8

(B)-No survey, (B)-in adjacent drainage.

YOUR WATER SUPPLY

SNOWPACK IN THE ANIMAS RIVER BASIN HAS DECREASED FROM 60% OF AVERAGE LAST MONTH TO 34% OF AVERAGE AS OF MAY 1. THE DOLORES RIVER WATERSHED HAS ONLY 22% OF AVERAGE THIS MONTH COMPARED TO 68% OF AVERAGE APRIL 1. PREGIPITATION FOR THE AREA WAS 74% OF AVERAGE FOR APRIL AND 66% OF AVERAGE FOR THE SEASON. STREAMFLOW FOREGASTS GENERALLY RANGE FROM 1/4 TO 1/2 OF AVERAGE. RESERVOIR STORAGE IS NOW 158% OF AVERAGE. SOIL MOISTURE RANGES FROM FAIR TO POOR. ALL STREAMS WITH HIGH HEADWATERS ARE RISING RAPIDLY WITH THE EARLY MELT.

STREAMFLOW FORECASTS (1000 Ac. Ft.) April - September

FORECAST POINT	Forecast	% of Average	1963-77 Average
Florida River at Bondad	15	42	31.0
Animas River at Durango	190	45	425.0
Dolores River at Dolores	100	43	233.0
La Plata River at Hesperus	10	42	23.5
Los Pinos River at Bayfield (1)	100	49	204.0
Mancos River near Towaoc	4	18	21.9
Inflow to Navajo River (1 & 3)	285	47	608.0
Piedra Creek at Arboles	70	35	201.0
San Juan River at Carracas	170	46	370.0
San Miguel River at Placerville	60	48	124.0

(1) Observed flow plus changes in storage in tributary Reservoirs. (2) March-July (3) April-July.

WATER SUPPLY OUTLOOK

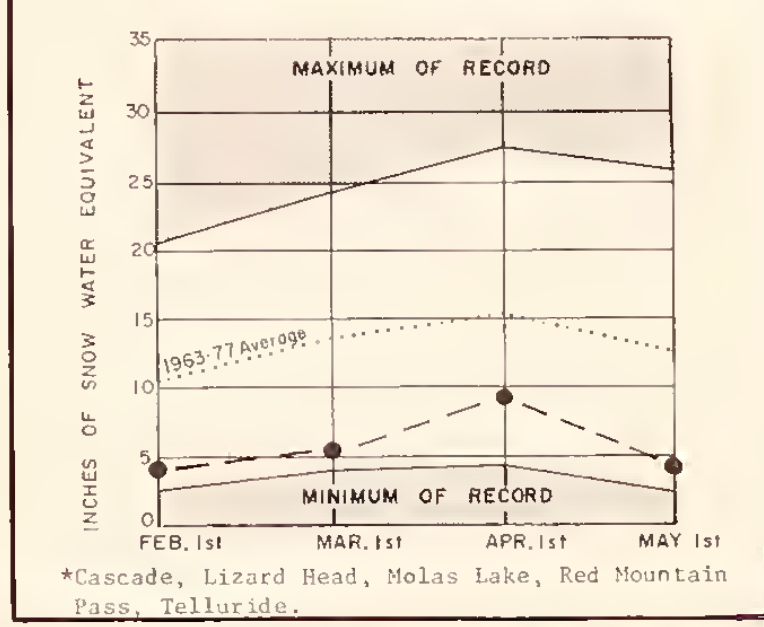
Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Hermosa Creek	Fair	Poor
West Dolores River	Fair	Poor
Williams Creek	Fair	Poor

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Name of Stream and or RESERVOIR	Usable Capacity	Usable Storage			
		Total	Left	1963-77	Average
Groundhog	22	1	10	12	
Jackson Gulch	10	7	4	7	
Lemon	40	24	17	23	
Navajo	1696	1243	1181	741	
Vallecito	126	67	42	66	

WATERSHED SNOWPACK Based on 5 Selected Snow Courses *



WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

-GUNNISON RIVER WATERSHED

Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.

-COLORADO RIVER WATERSHED

Describe water supply conditions in DeBeque, Plateau Valley, Mesa, Bookcliff, Eagle County, Middle Park, South Side, and Mt. Saprís Soil Conservation Districts.

-SOUTH PLATTE RIVER WATERSHED

Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts. Also describes water supply conditions in Sedgwick, South Platte, Hoxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.

-YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED

Describes water supply conditions in Yampa, Moffot, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.

-ARKANSAS RIVER WATERSHED

Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Central Colorado, Turkey Creek, South Pueblo, Olney Boone, Cheyenne, Upper Huerfano, Spanish Peaks, Purgatoire River, Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Natheost Prowers, Prowers, Kiowa County, West Otero, East Otero, Prairie, Hi Plains, and Double El Soil Conservation Districts.

-RIO GRANDE WATERSHED

Describes water supply conditions in Rio Grande, Center, Conejas, Mosca Hooper, and Costilla, Soil Conservation Districts. Also describes water supply conditions in UpperChoma East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe-Pojoaque, Sandoval, Tijeras, Cuba and Edgewood Soil Conservation Districts.

-DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED

Describes water supply conditions in San Miguel Basin, Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.